

HARDOX®
WEAR PLATE

THE NEW GENERATION HARDOX® WEAR PLATE



LIGHTER CONTAINERS



HIGHER LOAD CAPACITY



EXTENDED SERVICE LIFE



REDUCED FUEL CONSUMPTION



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SSAB

THE BEAST HAS DONE IT AGAIN

Hardox® 500 Tuf is the latest upgrade in the Hardox® range. It delivers high strength, extreme hardness and guaranteed toughness in one and the same wear plate.

Hardox® 500 Tuf combines the best properties from the Hardox® 450 and Hardox® 500 grades. The result is a wear plate with no real competition on the market.

It has the toughness necessary to perform as a structural material in recycling containers, tipper bodies, buckets and other heavy-duty products. It also works in freezing conditions as the impact energy values indicate.

Superior wear and dent resistance gives extended service life and the ability to endure heavy impact.

Typical working conditions include loading or dropping heavy and sharp materials into recycling containers or tipper bodies, for example steel scrap or pieces of concrete with rebar from demolition.

Hardox® 500 Tuf has a guaranteed impact energy of 27 J at -20°C (20 ft-lb at -4 °F), and a typical value of 45 J at -40°C (33 ft-lb at -40 °F). It has an unusually narrow Brinell hardness window of 475-505 HBW. The estimated relative service life for Hardox® 500 Tuf is 60-70% longer than Hardox® 400 with steel scrap in WearCalc.*

WORKSHOP-FRIENDLY

Hardox® 500 Tuf can be processed by the same kind of machinery used for other Hardox® grades. Bendability recommendations are similar to those for Hardox® 450.

*The calculations are based on sliding wear with steel scrap.

Hardox® 500 Tuf																							
Product		Hardness nominal HBW		Impact toughness CVT guaranteed J at -20 °C (ft-lb at -4 °F)		Impact toughness CVL typical J at -40 °C (ft-lb at -40 °F)		Relative service life interval (relative to Hardox® 400)		CEV/CET		Thickness range mm (inches)											
Hardox® 500 Tuf wear plate		490		27 J (20 ft-lb) for 20 mm (0.787")		45 J (33 ft-lb) for 20 mm (0.787")		1.3-2.1		0.53/0.37 for 20 mm (0.787")		4-25.4 mm (0.157-1")											
Hardox® 500 Tuf wear sheet		490				45 J (33 ft-lb)		1.3-2.1		0.40/0.30		3-6.5 (0.118-0.256)											
Hardox® 500 Tuf wear plate																							
Width	1000-	1351-	1500-	1601-	1701-	1801-	1901-	2001-	2101-	2201-	2301-	2401-	2501-	2601-	2701-	2801-	2901-	3001-	3101-	3201-	3301-		
Thickness	1350	1499	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	3200	3300	3350		
3.0-3.7																							
3.8-4.7																							
4.8-5.7																							
5.8-6.7																							
6.8-7.7																							
7.8-8.7									Maximum length 14630 mm (576")														
8.8-10.0																							
10.1-24.0																							
24.1-25.4																							
25.5-26																							

Hardox® 500 Tuf wear sheet											
Width	950-	1001-	1201-	1251-	1301-	1501-	1526-	1551-	1576-	1601-	1626-
Thickness	1000	1200	1250	1300	1500	1525	1550	1575	1600	1625	1650
2.50-2.99											
3.00-3.09											
3.10-3.19											
3.20-3.99											
4.00-4.49											
4.50-4.79											
4.80-4.99											
5.00-5.99											
6.00-6.40											
6.41-6.50											

Some restrictions, contact your local sales representative for information

Outside the range of dimensions

The data in these tables may be subject to change without notice. Please download the latest version of the respective Hardox® wear plate product data sheet at www.ssab.com.